Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet

Trade Mark:

SUAAT, UJJ, DEERTiME, ZIOVO, DMOAO, SKYEGG, fezawio, JUEDUR, Biegedy, JUSYEA, YESTEL, Biegedy, GOODTEL

Test Model: S3

Environmental Conditions

Temperature:	24.6℃
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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1 Duty Cycle

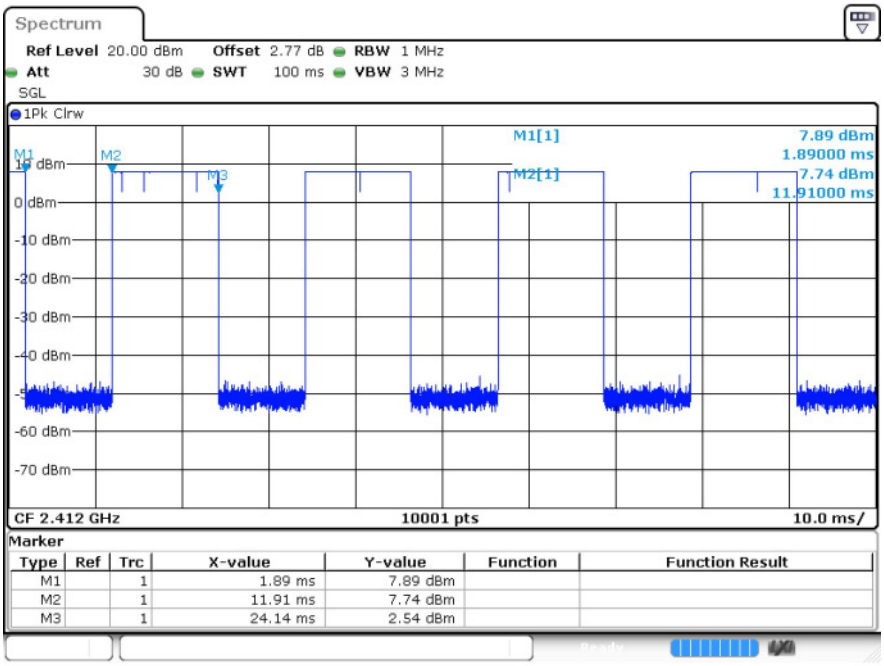
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	50.83	2.94	0.08
b	2437	Ant1	50.64	2.95	0.08
b	2462	Ant1	54.25	2.66	0.08
g	2412	Ant1	20.75	6.83	0.37
g	2437	Ant1	20.19	6.95	0.37
g	2462	Ant1	21.65	6.65	0.37
n20	2412	Ant1	32.7	4.85	0.2
n20	2437	Ant1	31.96	4.95	0.2
n20	2462	Ant1	30.59	5.14	0.2
n40	2422	Ant1	34.34	4.64	0.2
n40	2437	Ant1	31.48	5.02	0.2
n40	2452	Ant1	34.35	4.64	0.2
ax20	2412	Ant1	29.43	5.31	0.26
ax20	2437	Ant1	27.23	5.65	0.26
ax20	2462	Ant1	29.8	5.26	0.26
ax40	2422	Ant1	27.19	5.66	0.26
ax40	2437	Ant1	27.18	5.66	0.26
ax40	2452	Ant1	29.9	5.24	0.26

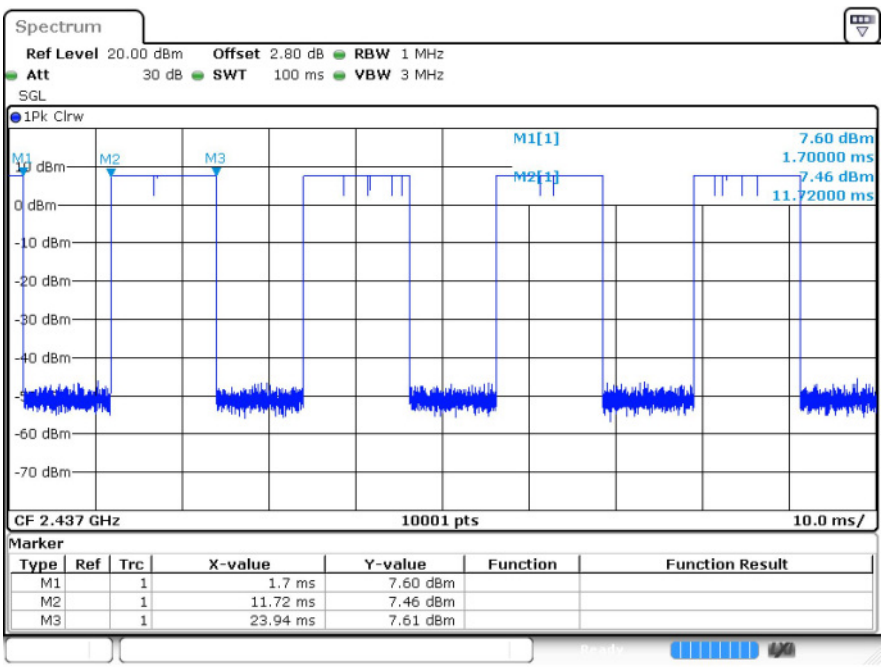
1.2 Test Graphs

Test Graphs

b 2412MHz Ant1

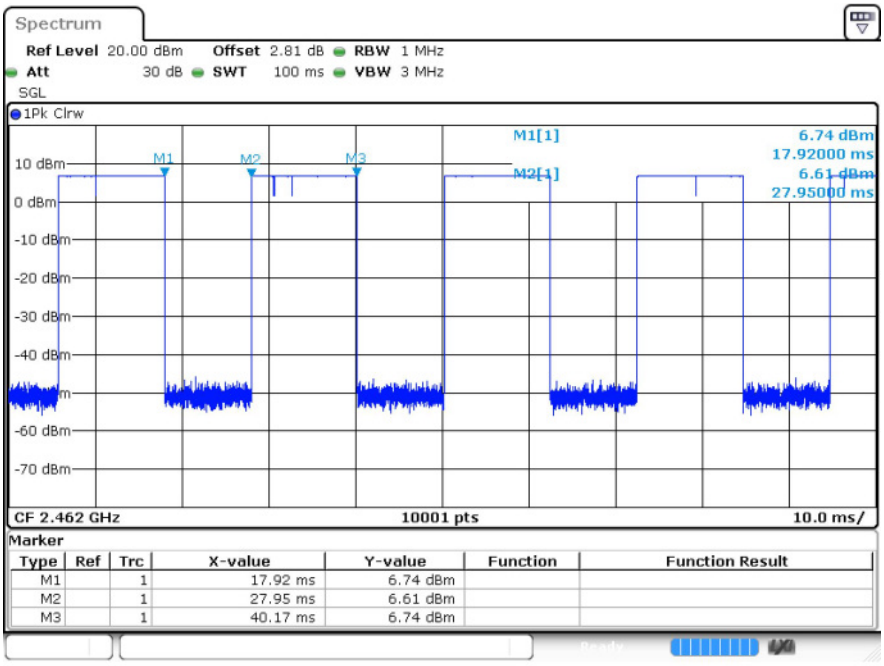


b 2437MHz Ant1

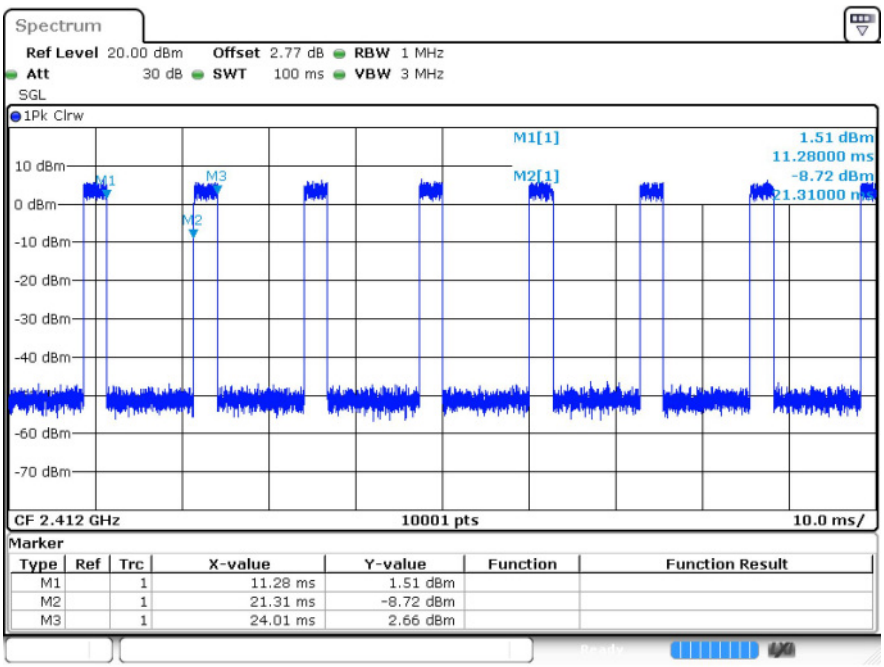


Test Graphs

b 2462MHz Ant1

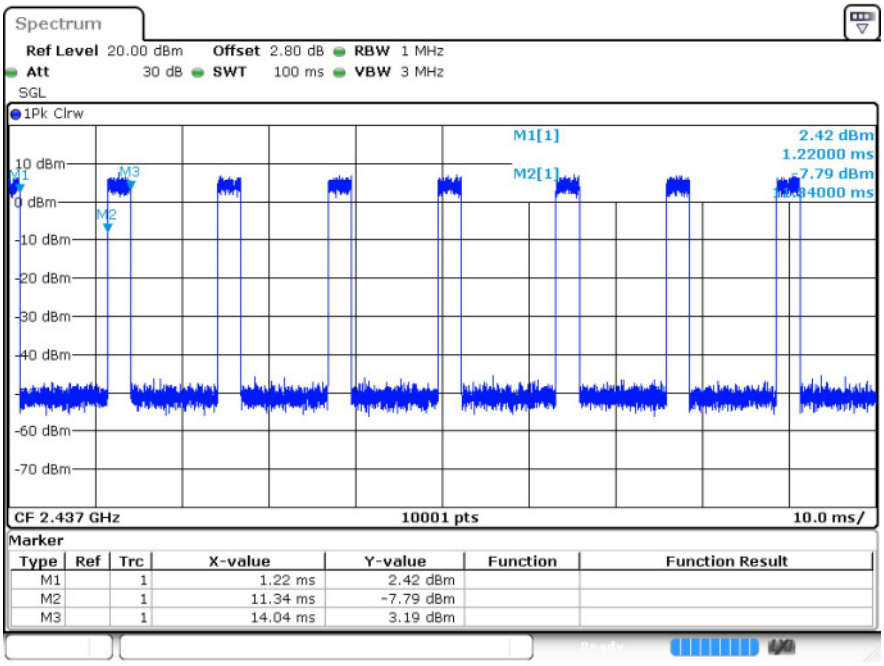


g 2412MHz Ant1

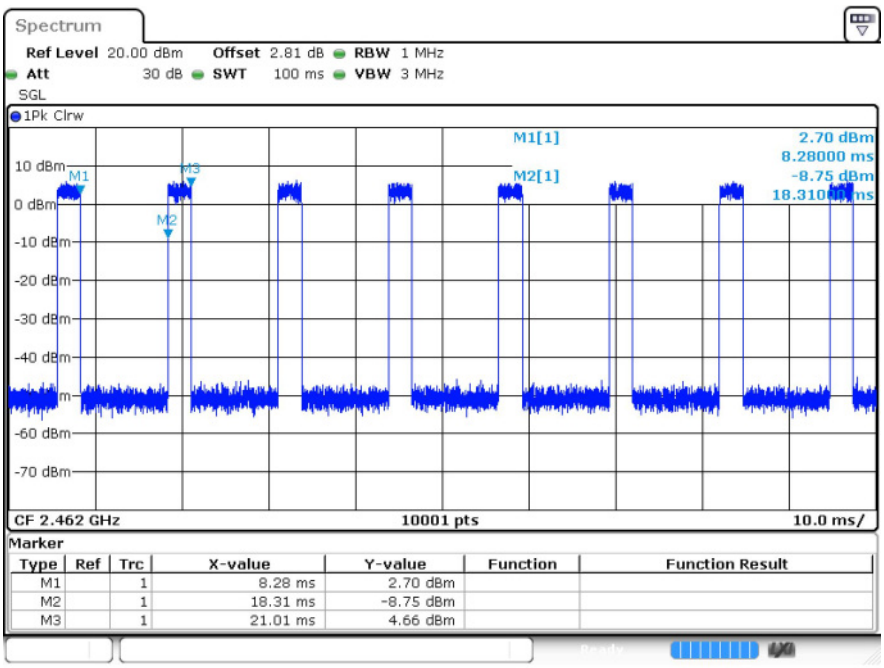


Test Graphs

g 2437MHz Ant1

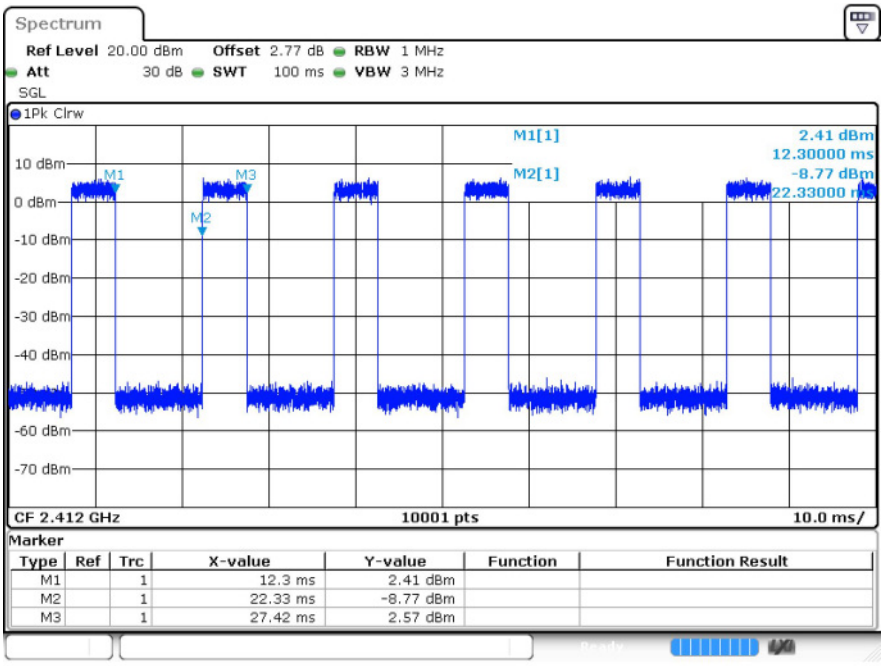


g 2462MHz Ant1

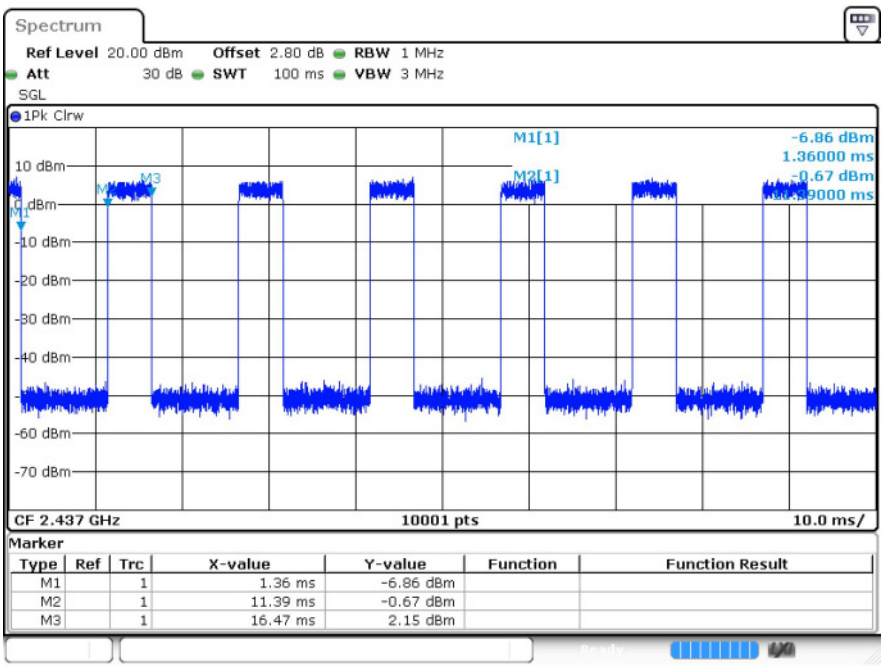


Test Graphs

n20 2412MHz Ant1

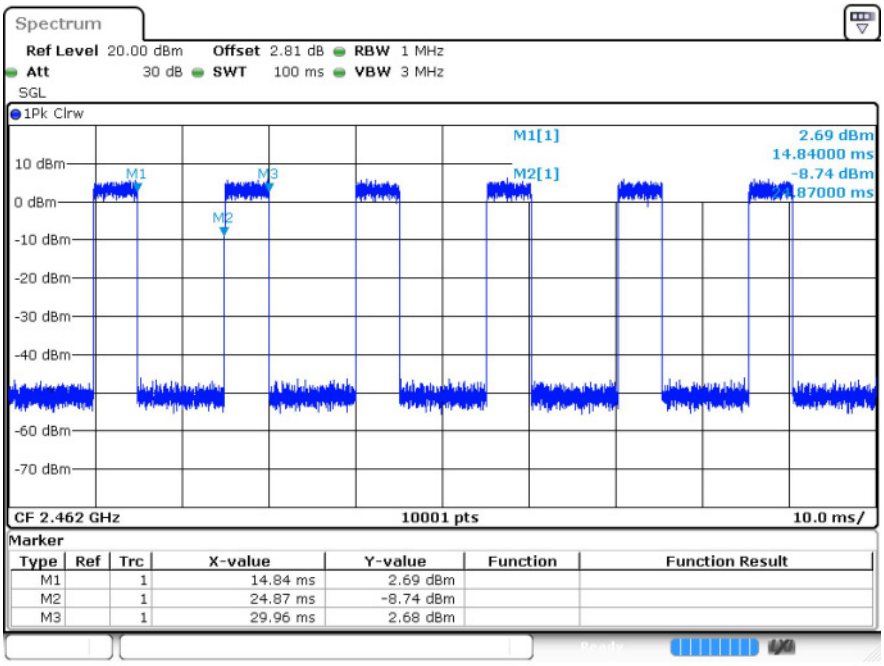


n20 2437MHz Ant1

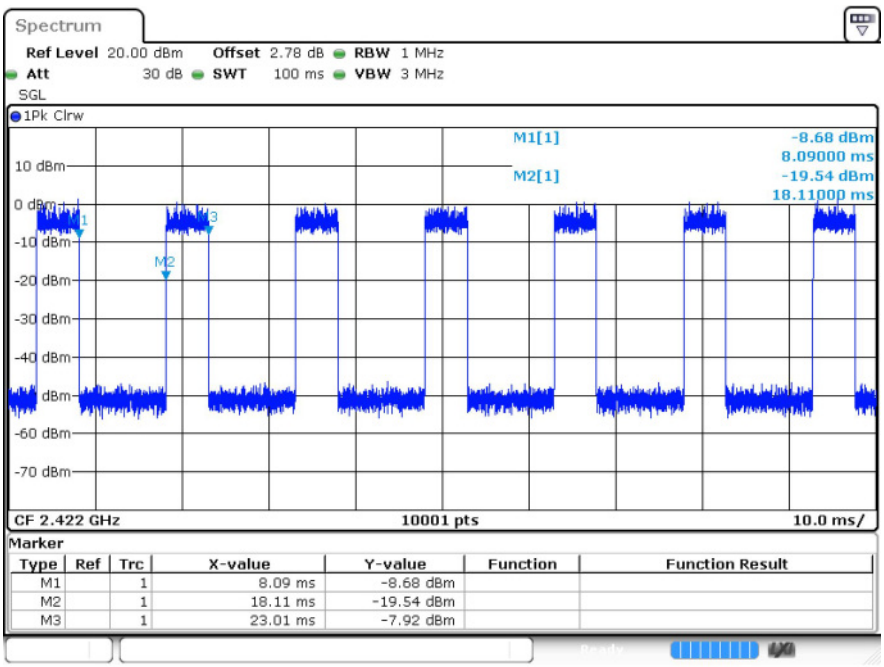


Test Graphs

n20 2462MHz Ant1

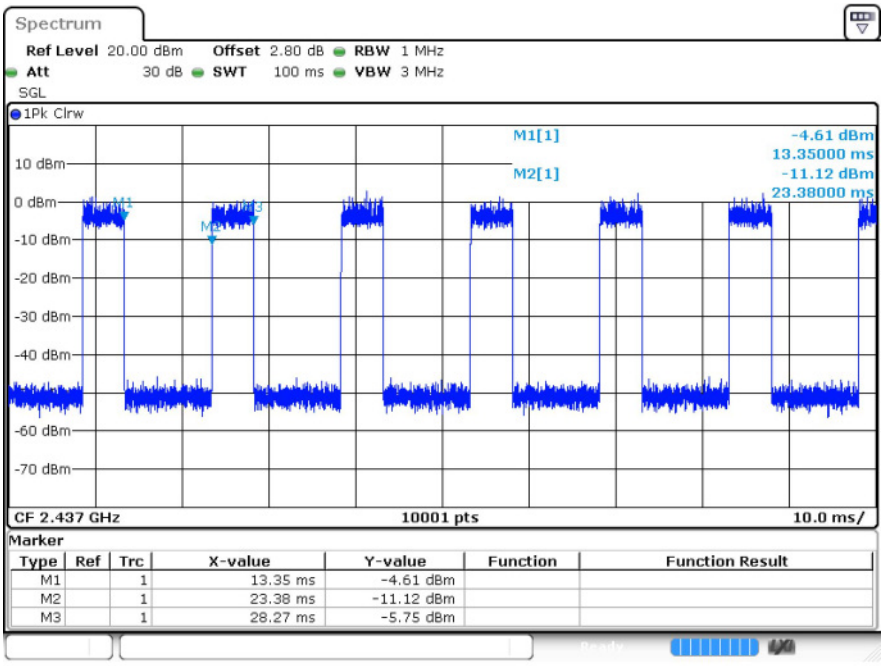


n40 2422MHz Ant1

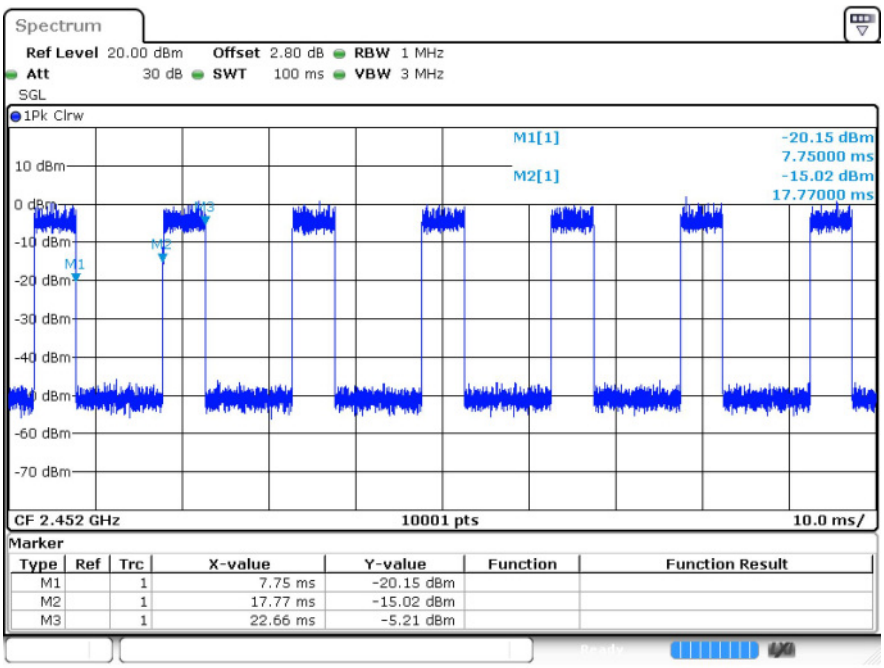


Test Graphs

n40 2437MHz Ant1

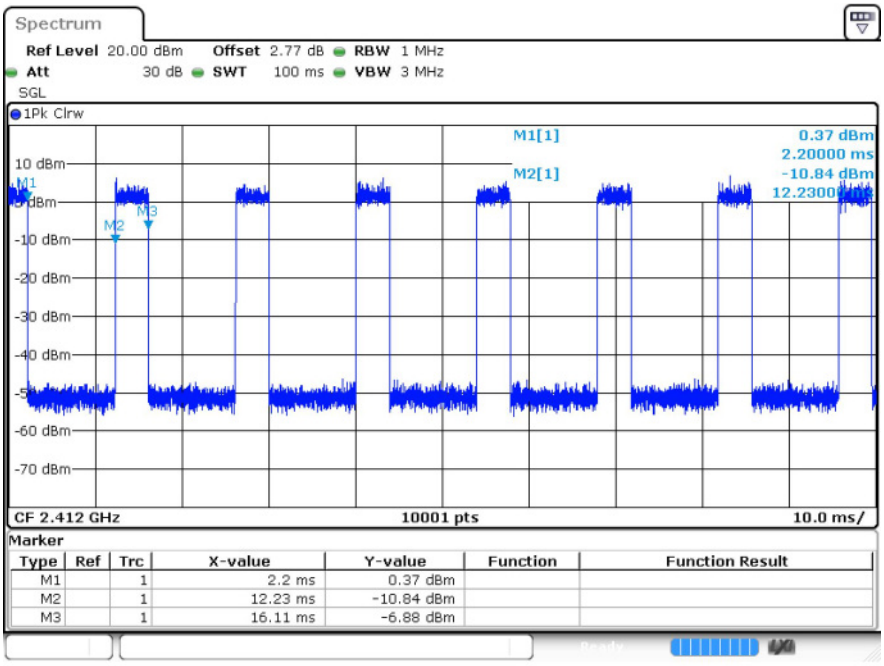


n40 2452MHz Ant1

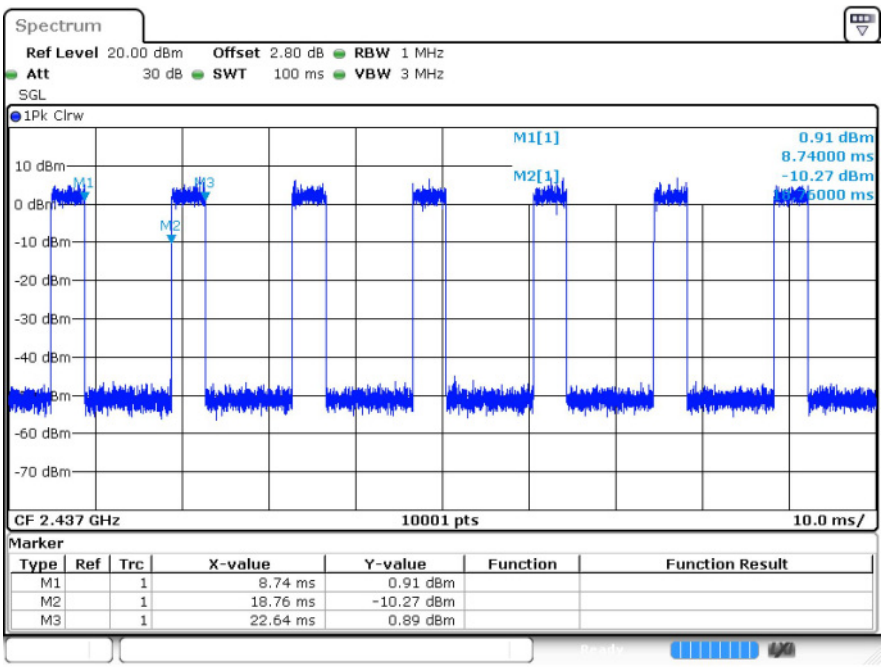


Test Graphs

ax20 2412MHz Ant1

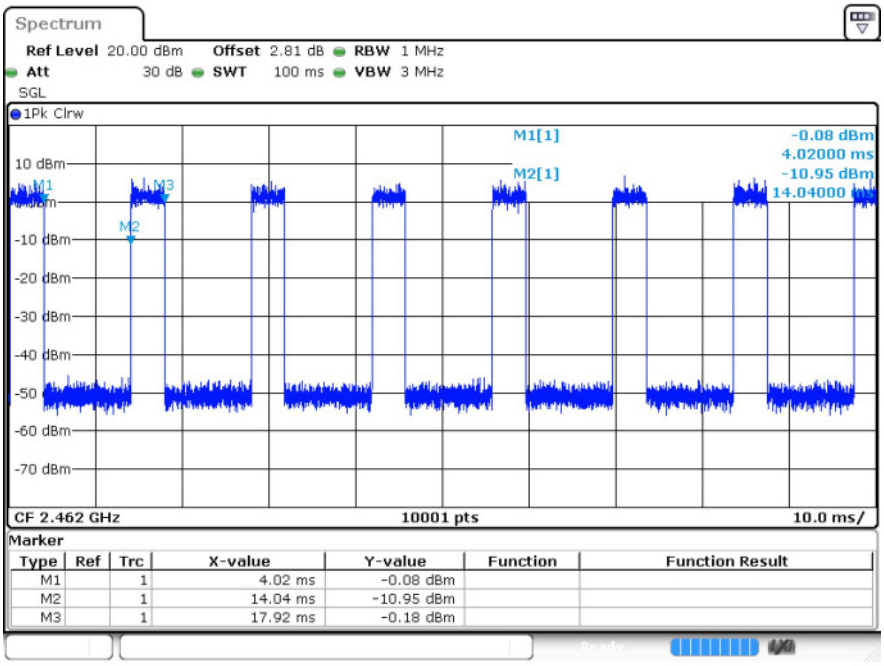


ax20 2437MHz Ant1

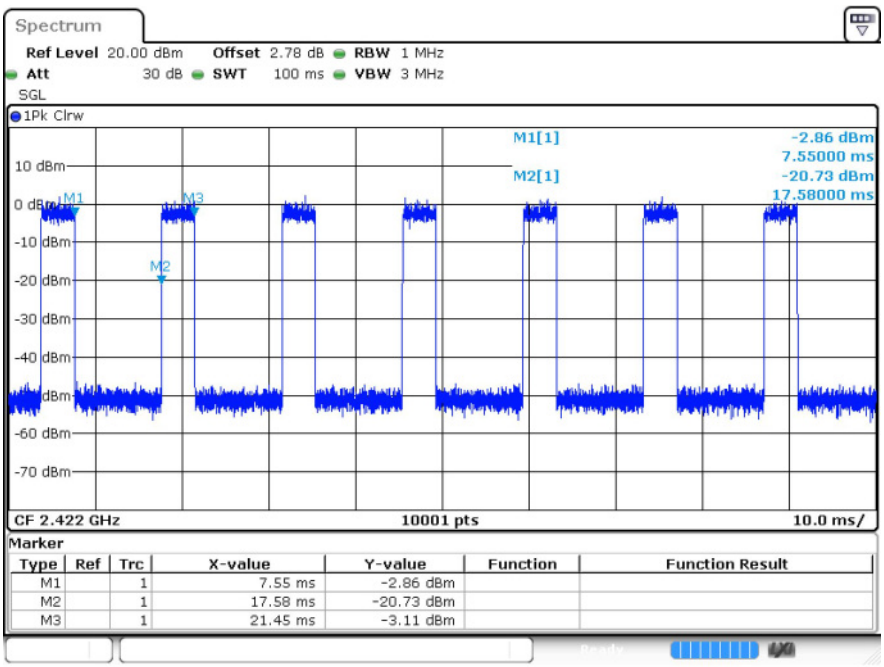


Test Graphs

ax20 2462MHz Ant1

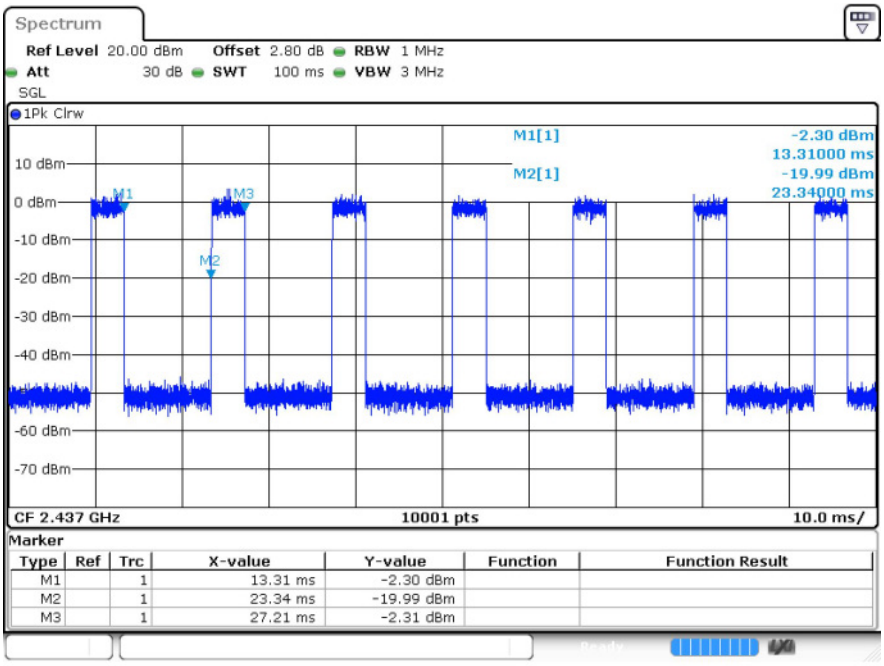


ax40 2422MHz Ant1

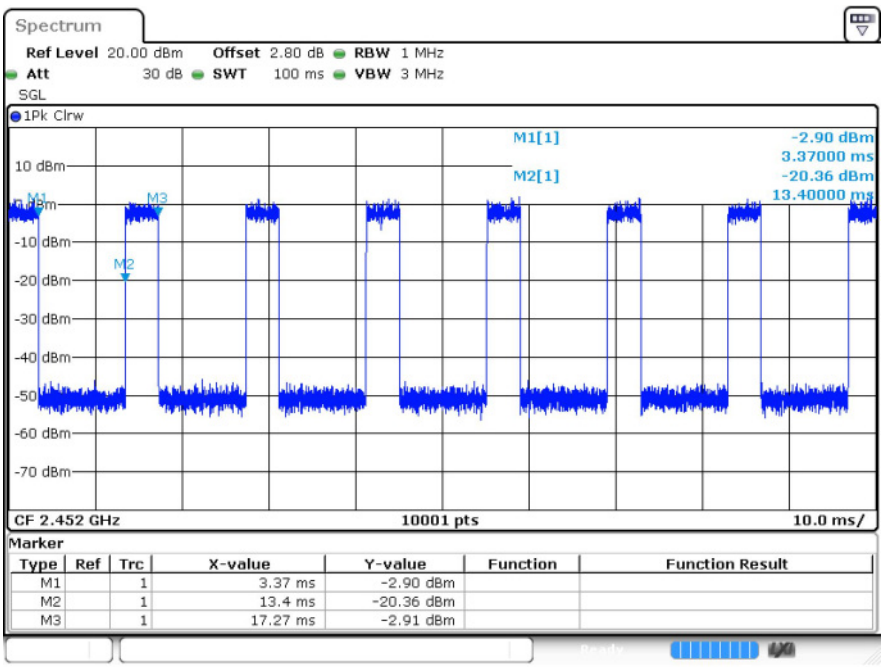


Test Graphs

ax40 2437MHz Ant1



ax40 2452MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	17.48	30	Pass
b	2437	Ant1	17.18	30	Pass
b	2462	Ant1	16.31	30	Pass
g	2412	Ant1	15.21	30	Pass
g	2437	Ant1	15.88	30	Pass
g	2462	Ant1	15.08	30	Pass
n20	2412	Ant1	15.57	30	Pass
n20	2437	Ant1	16.14	30	Pass
n20	2462	Ant1	15.44	30	Pass
n40	2422	Ant1	15.74	30	Pass
n40	2437	Ant1	16.38	30	Pass
n40	2452	Ant1	16.01	30	Pass
ax20	2412	Ant1	15.38	30	Pass
ax20	2437	Ant1	15.83	30	Pass
ax20	2462	Ant1	15.08	30	Pass
ax40	2422	Ant1	15.05	30	Pass
ax40	2437	Ant1	15.84	30	Pass
ax40	2452	Ant1	15.39	30	Pass

3 -6dB Bandwidth

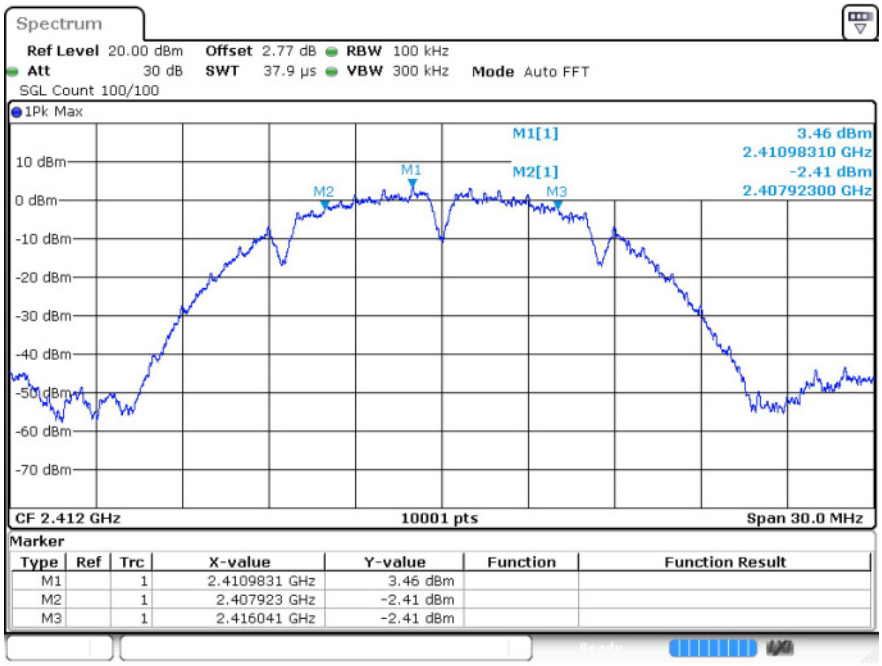
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.118	0.5	Pass
b	2437	Ant1	8.58	0.5	Pass
b	2462	Ant1	9.069	0.5	Pass
g	2412	Ant1	16.371	0.5	Pass
g	2437	Ant1	16.365	0.5	Pass
g	2462	Ant1	16.344	0.5	Pass
n20	2412	Ant1	17.619	0.5	Pass
n20	2437	Ant1	17.607	0.5	Pass
n20	2462	Ant1	17.604	0.5	Pass
n40	2422	Ant1	36.438	0.5	Pass
n40	2437	Ant1	36.354	0.5	Pass
n40	2452	Ant1	36.39	0.5	Pass
ax20	2412	Ant1	18.423	0.5	Pass
ax20	2437	Ant1	19.035	0.5	Pass
ax20	2462	Ant1	19.02	0.5	Pass
ax40	2422	Ant1	38.022	0.5	Pass
ax40	2437	Ant1	37.386	0.5	Pass
ax40	2452	Ant1	37.902	0.5	Pass

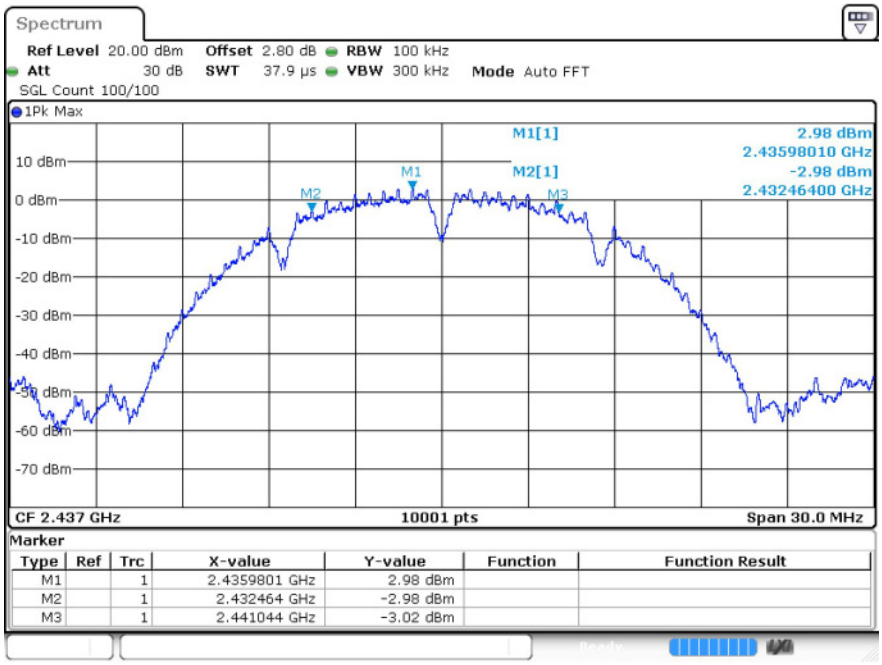
3.2 Test Graphs

Test Graphs

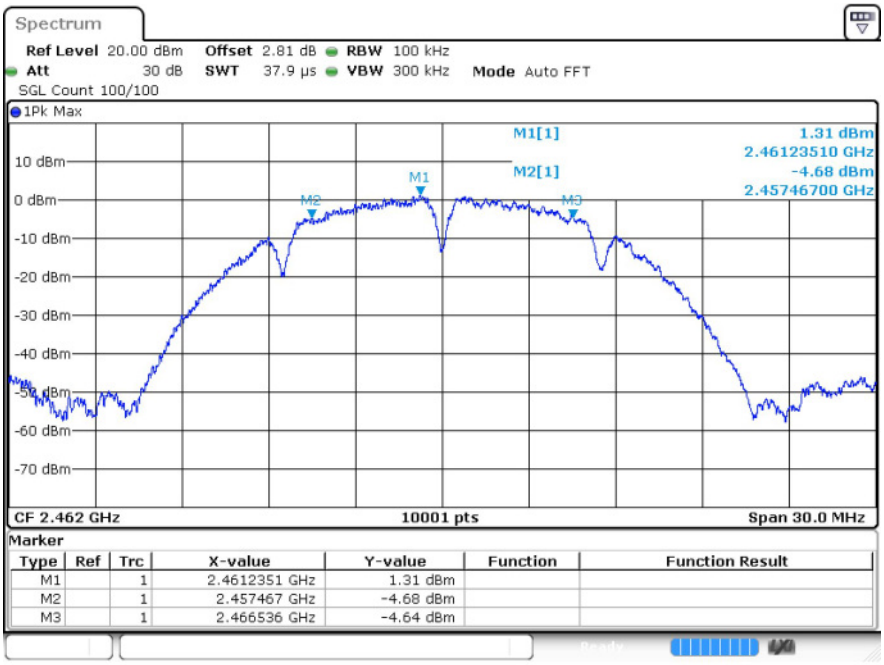
b 2412MHz Ant1



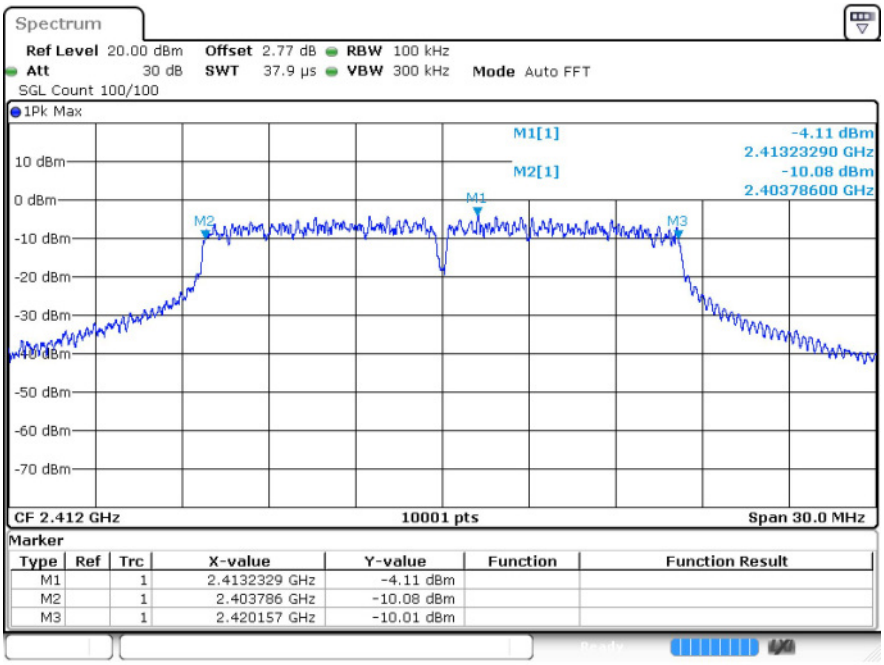
b 2437MHz Ant1



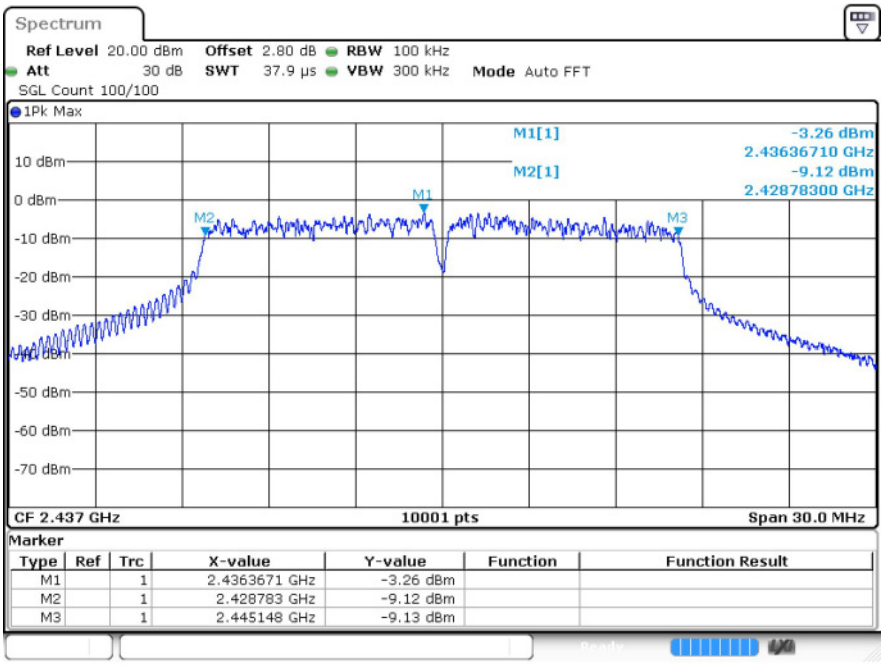
b 2462MHz Ant1



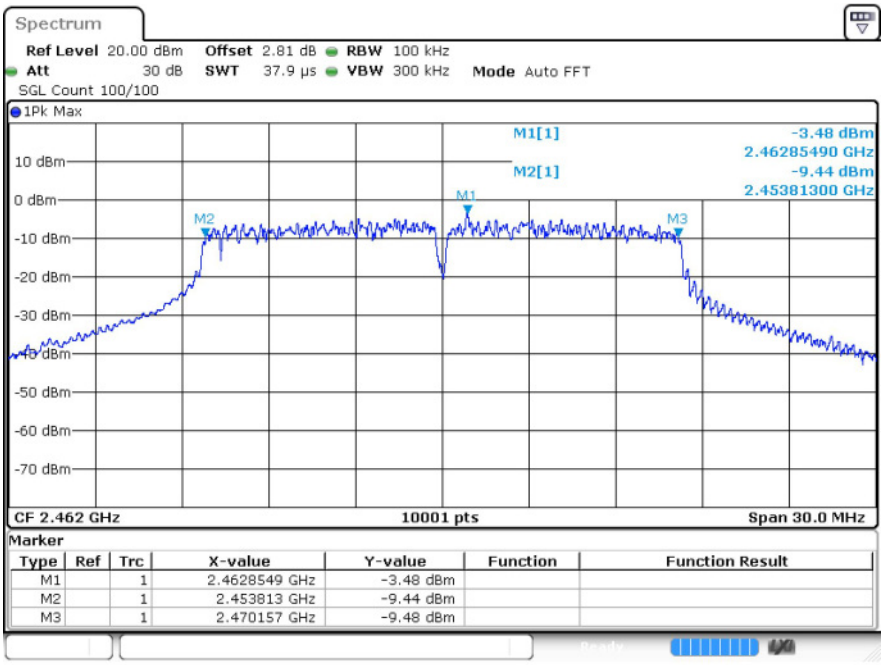
g 2412MHz Ant1



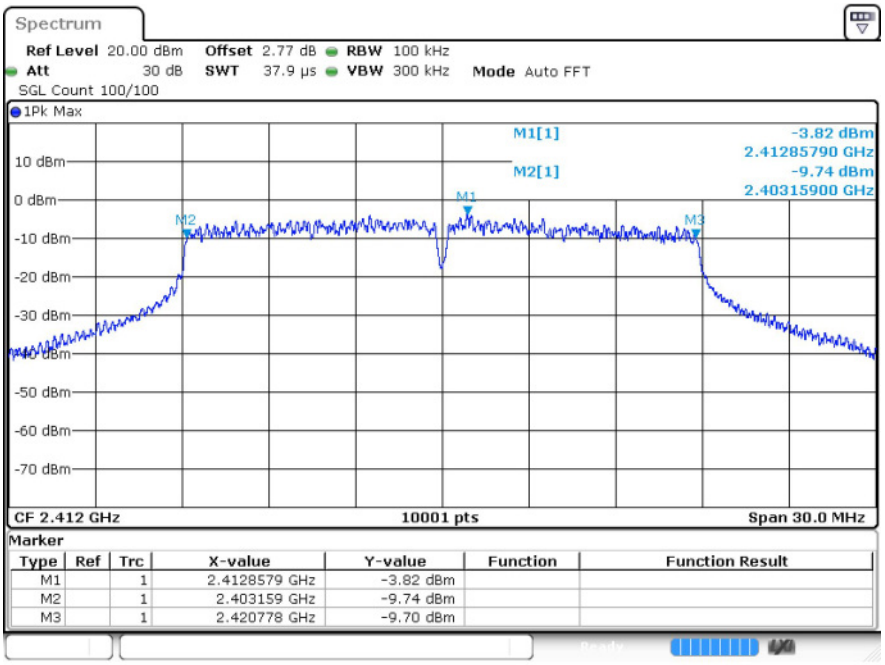
g 2437MHz Ant1



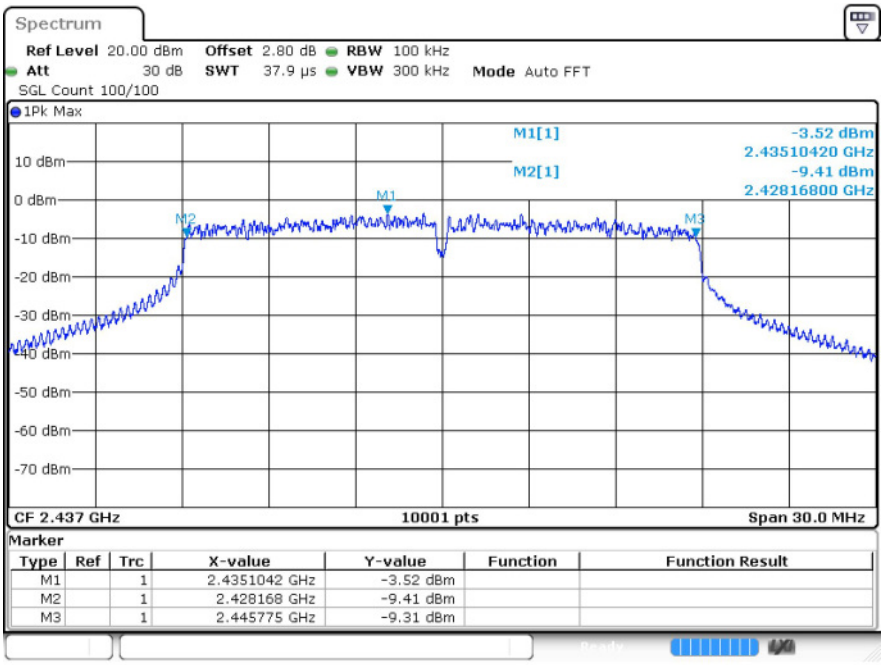
g 2462MHz Ant1



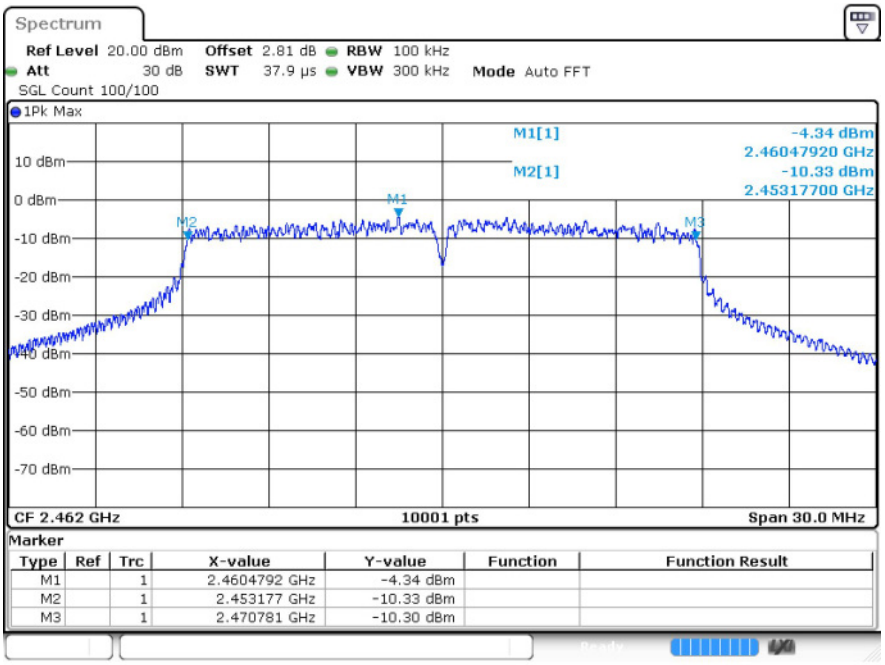
n20 2412MHz Ant1



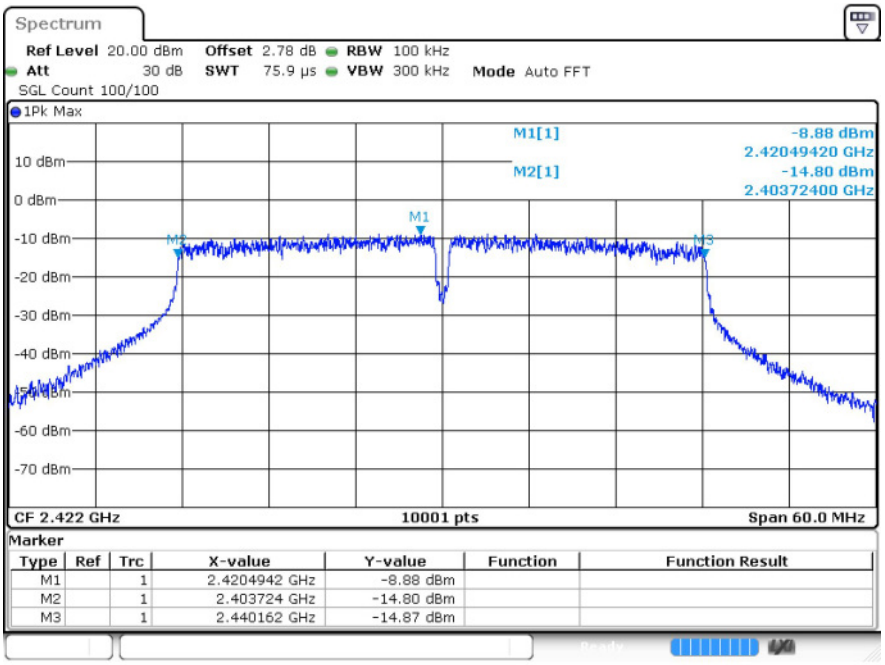
n20 2437MHz Ant1



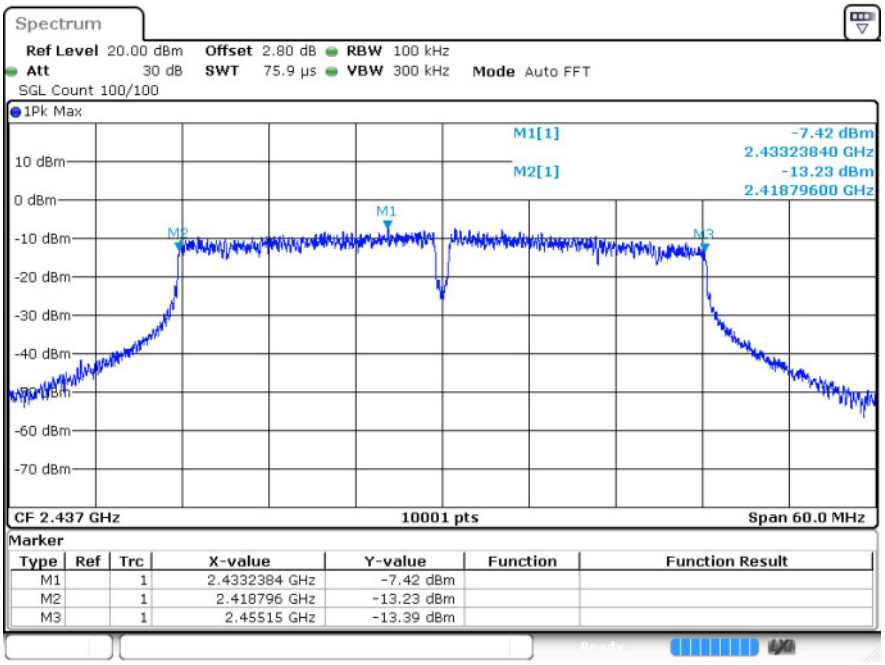
n20 2462MHz Ant1



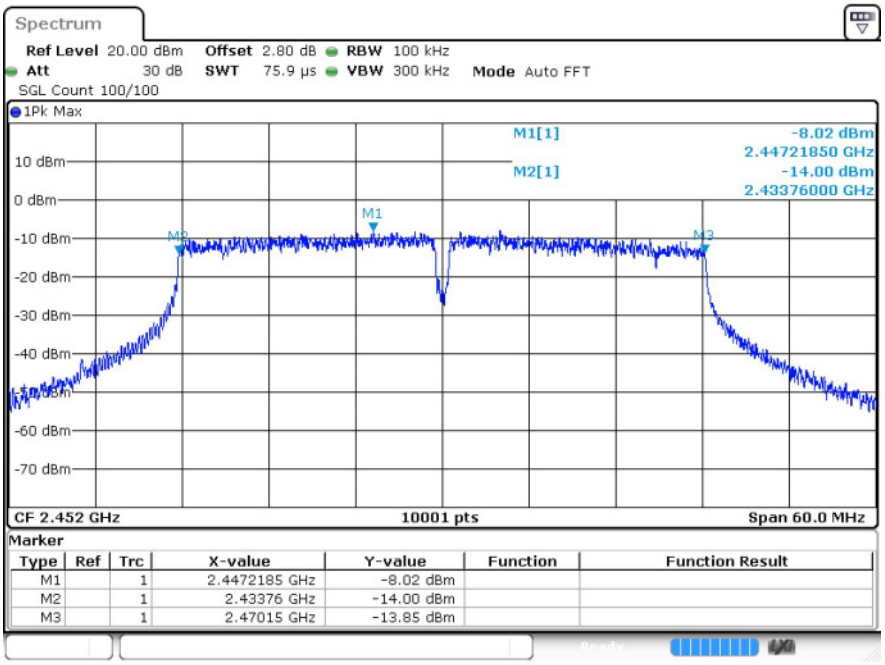
n40 2422MHz Ant1



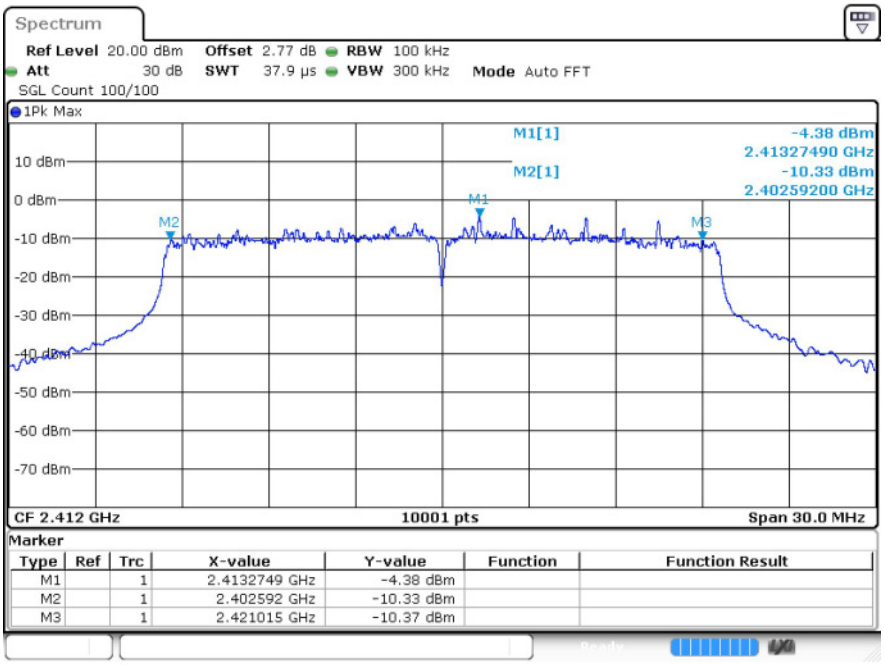
n40 2437MHz Ant1



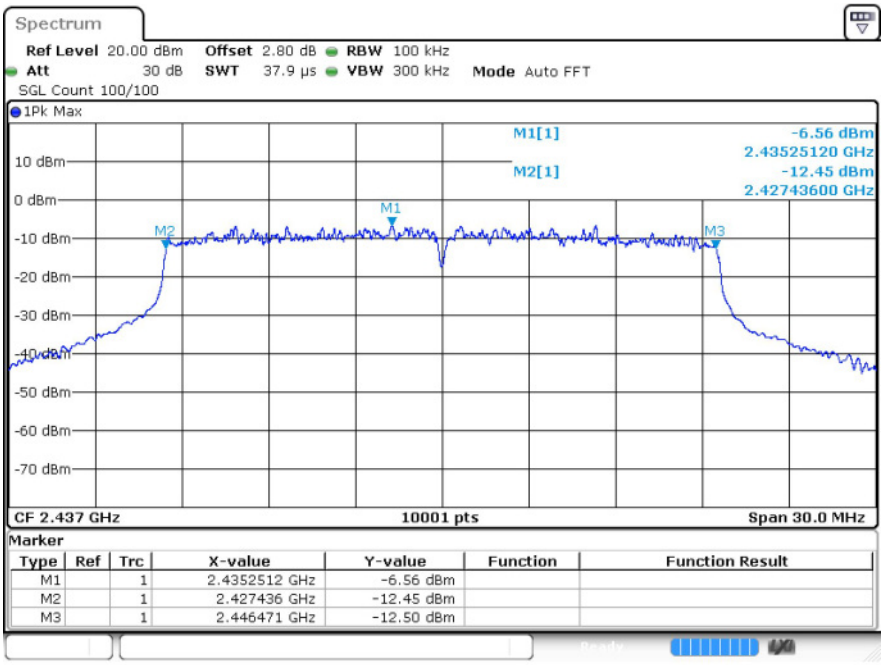
n40 2452MHz Ant1



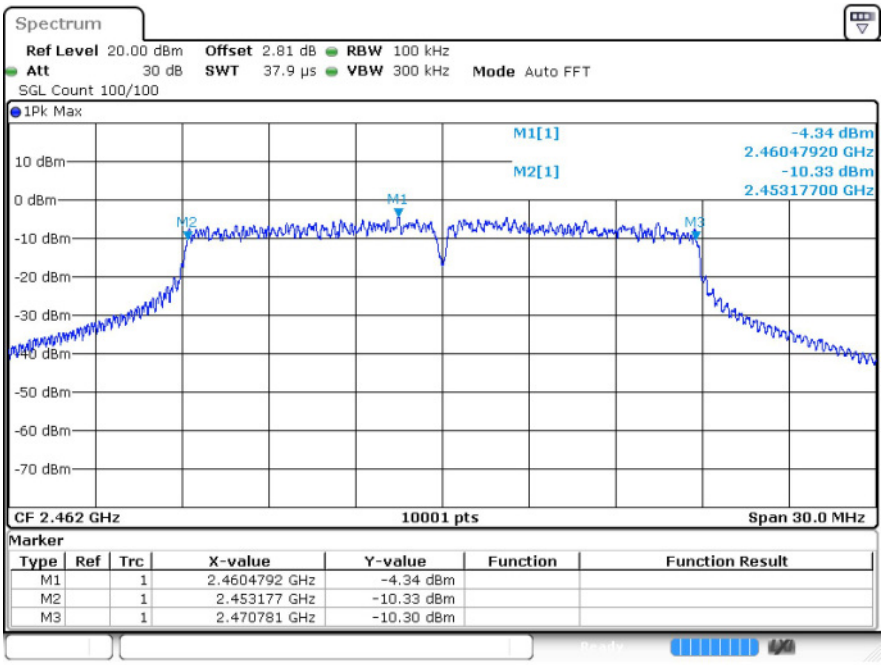
ax20 2412MHz Ant1



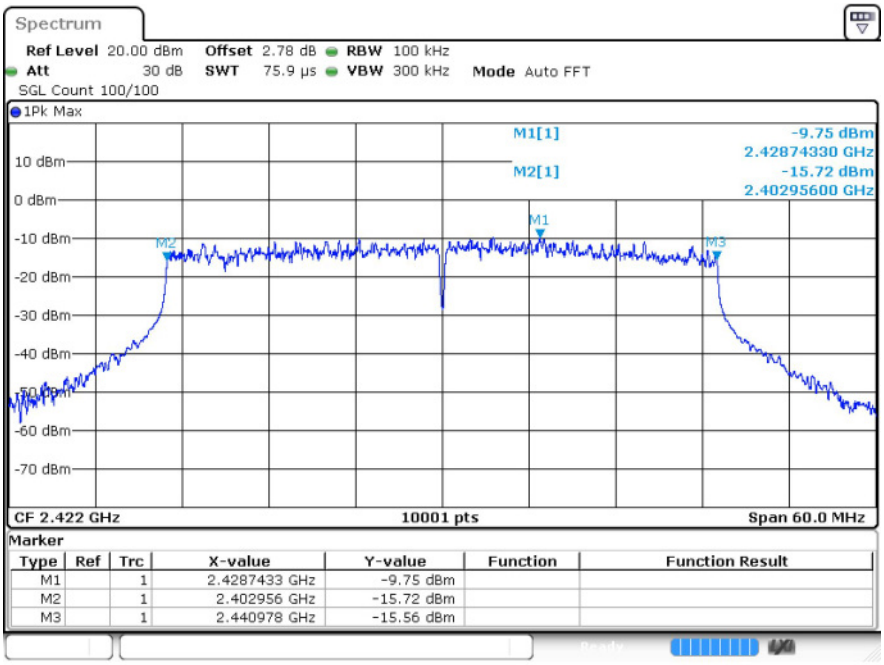
ax20 2437MHz Ant1



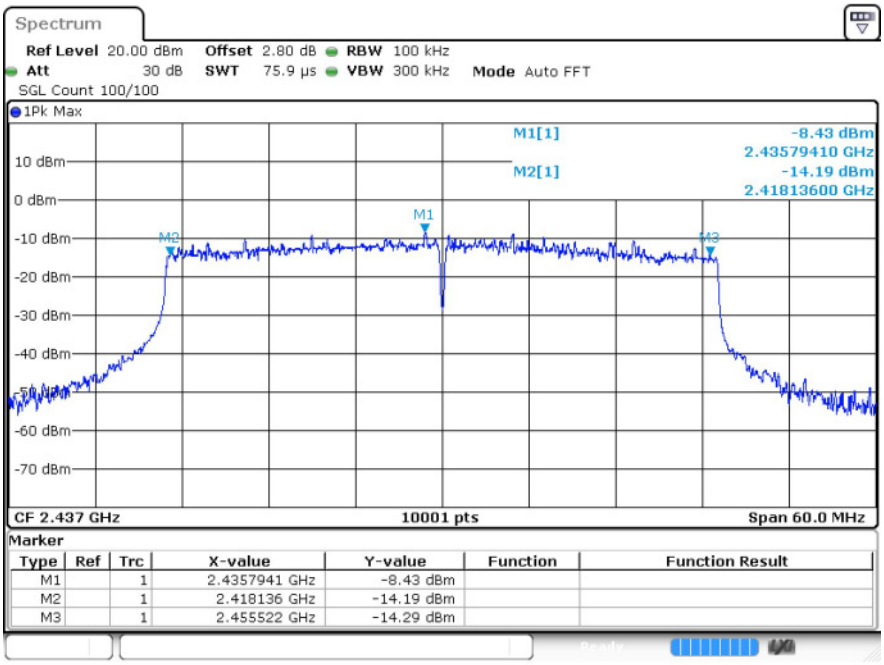
ax20 2462MHz Ant1



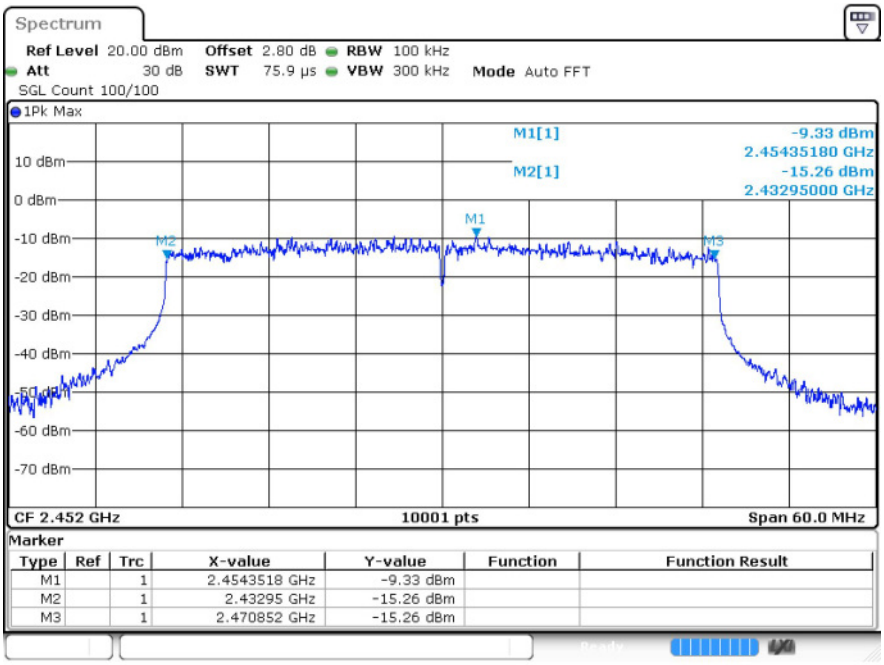
ax40 2422MHz Ant1



ax40 2437MHz Ant1



ax40 2452MHz Ant1

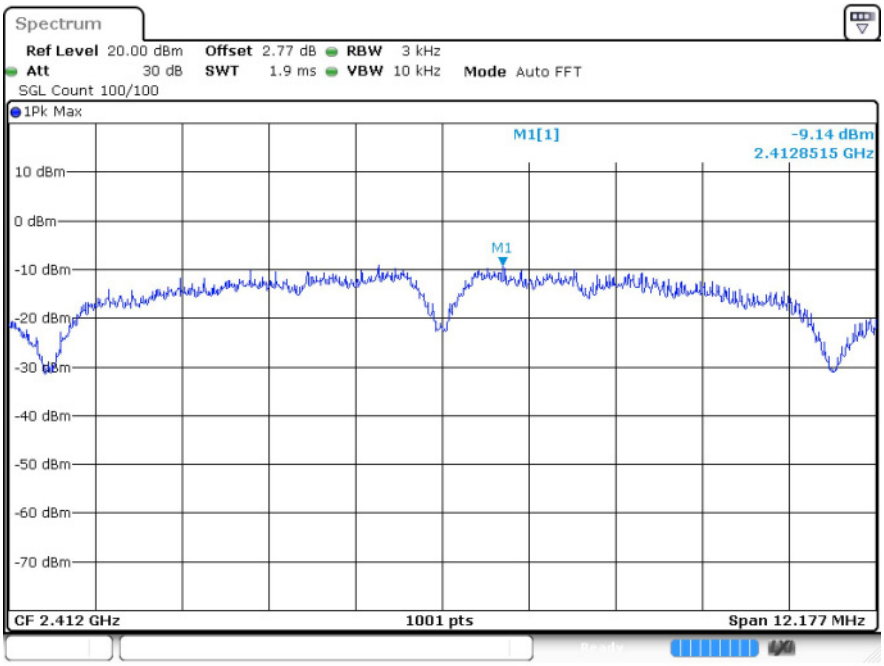
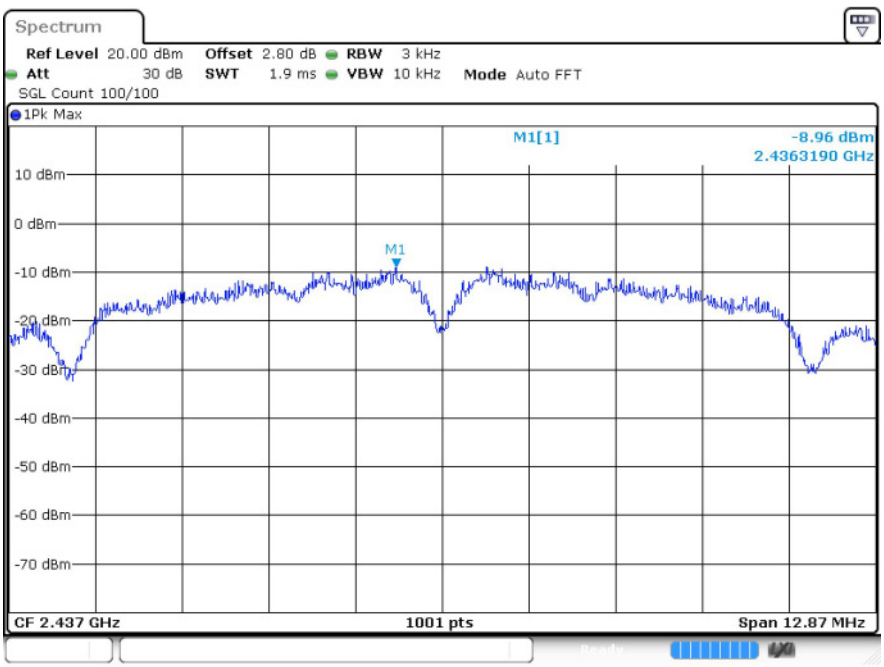


4 Maximum Power Spectral Density Level

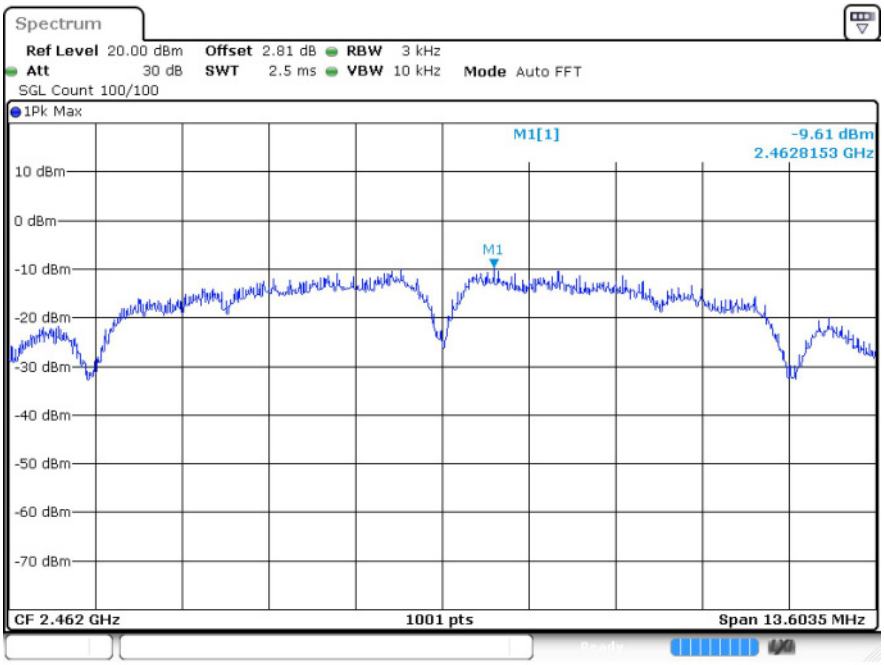
4.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-9.14	≤8	Pass
b	2437	Ant1	-8.96	≤8	Pass
b	2462	Ant1	-9.61	≤8	Pass
g	2412	Ant1	-15.28	≤8	Pass
g	2437	Ant1	-13.55	≤8	Pass
g	2462	Ant1	-14.03	≤8	Pass
n20	2412	Ant1	-14.7	≤8	Pass
n20	2437	Ant1	-14.36	≤8	Pass
n20	2462	Ant1	-13.85	≤8	Pass
n40	2422	Ant1	-18.07	≤8	Pass
n40	2437	Ant1	-17.15	≤8	Pass
n40	2452	Ant1	-18.8	≤8	Pass
ax20	2412	Ant1	-6.6	≤8	Pass
ax20	2437	Ant1	-6.07	≤8	Pass
ax20	2462	Ant1	-3.83	≤8	Pass
ax40	2422	Ant1	-9.52	≤8	Pass
ax40	2437	Ant1	-7.99	≤8	Pass
ax40	2452	Ant1	-9.53	≤8	Pass

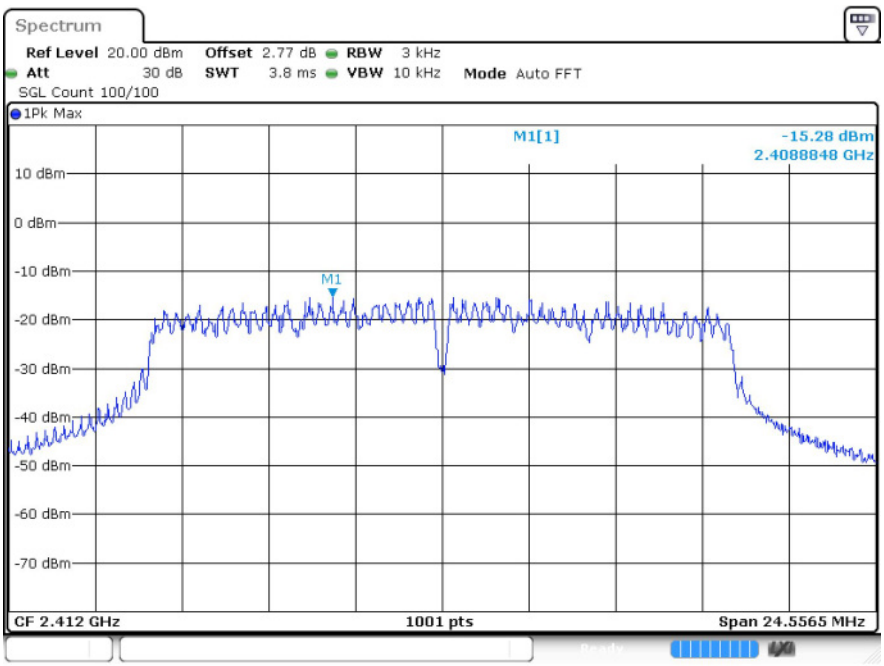
4.2 Test Graphs

Test Graphs
b 2412MHz Ant1

b 2437MHz Ant1


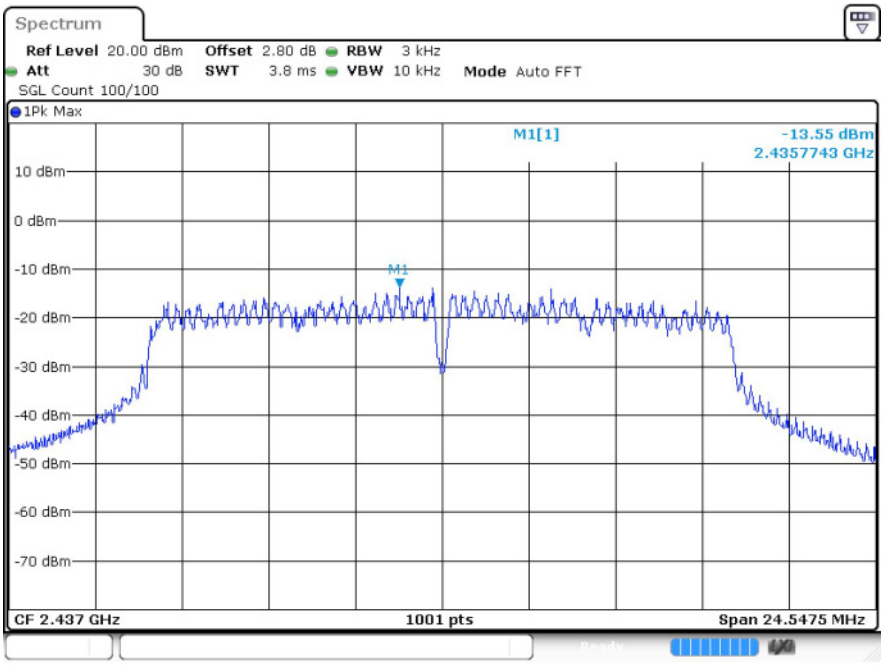
b 2462MHz Ant1



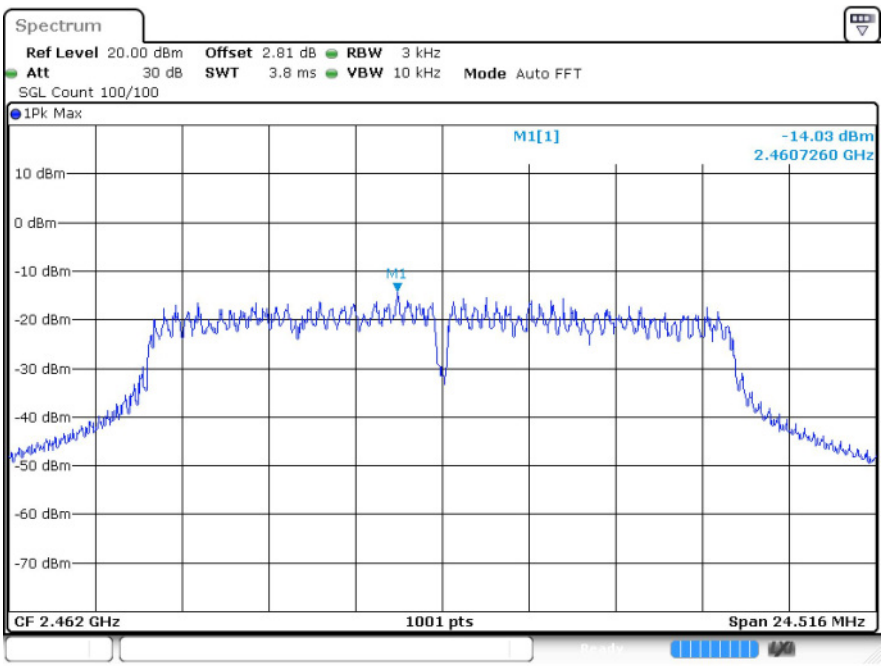
g 2412MHz Ant1



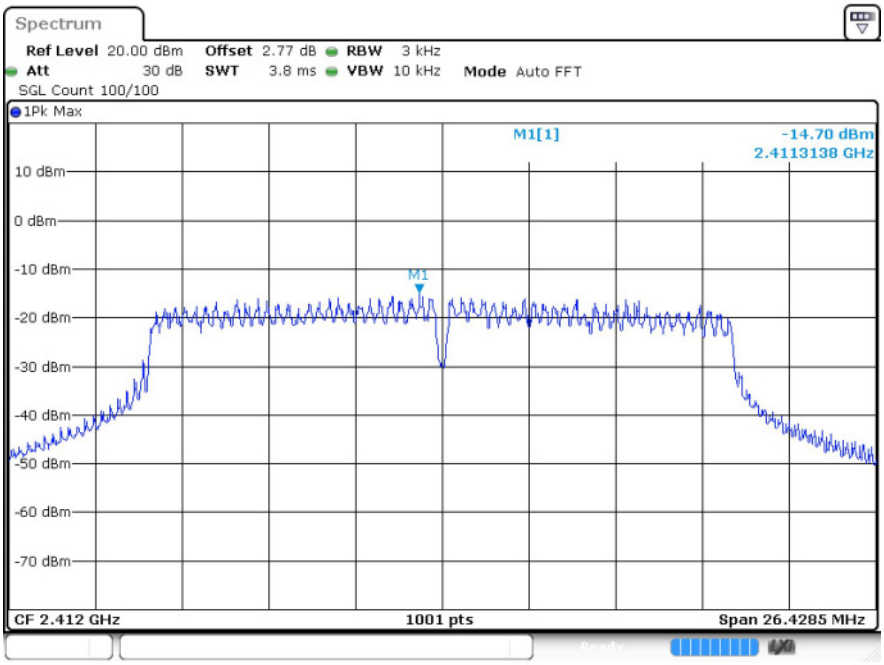
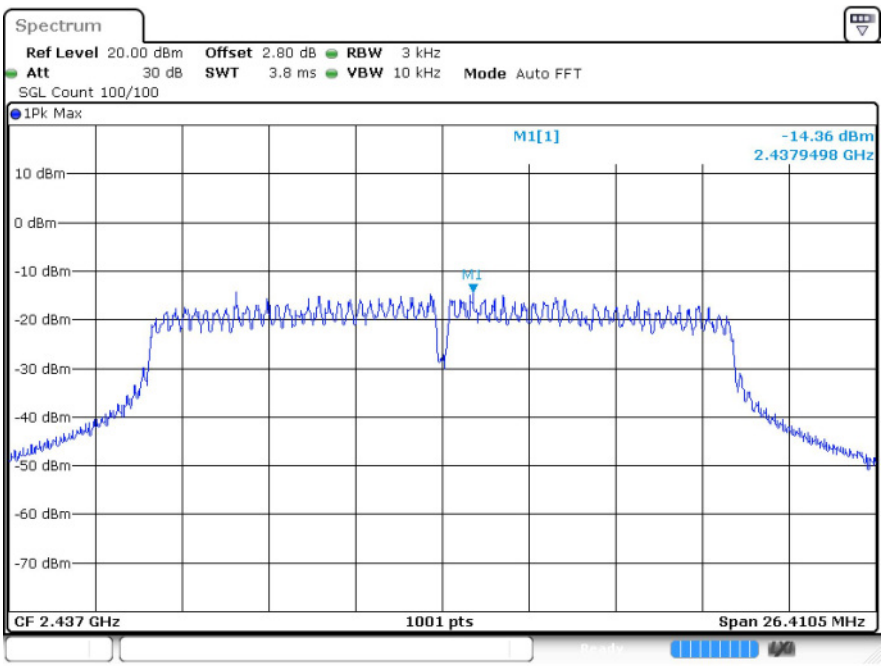
g 2437MHz Ant1



g 2462MHz Ant1



n20 2412MHz Ant1



n20 2437MHz Ant1